

Release notes for ENDF/B Development n-054_Xe_134
evaluation

ENDF
B-VII.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT=5455, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT=5455, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      126 TO      194
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT=5455, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT=5455, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      126
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 2, MT=151 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5455, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY      RECORD NUMBER      196
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT= 1 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5455, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY      RECORD NUMBER      275
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5455, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY      RECORD NUMBER      307
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT= 4 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5455, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY      RECORD NUMBER      339
```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT= 16 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5455, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY      RECORD NUMBER      367
```

7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT= 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=5455, MF= 3, MT= 17
SECTION 3/ 17 NOT IN DIRECTORY RECORD NUMBER 382

8. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=5455, MF= 3, MT= 22
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 390

9. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=5455, MF= 3, MT= 28
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 401

10. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT= 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=5455, MF= 3, MT= 51
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 412

11. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT= 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=5455, MF= 3, MT= 52
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 440

12. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT= 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=5455, MF= 3, MT= 53
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 466

13. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT= 54 (0): Directory (b)

ERROR(S) FOUND IN MAT=5455, MF= 3, MT= 54
SECTION 3/ 54 NOT IN DIRECTORY RECORD NUMBER 491

14. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT= 55 (0): Directory (b)

ERROR(S) FOUND IN MAT=5455, MF= 3, MT= 55
SECTION 3/ 55 NOT IN DIRECTORY RECORD NUMBER 516

15. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT= 56 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5455, MF= 3, MT= 56 | RECORD NUMBER | 541 |
| SECTION 3/ 56 NOT IN DIRECTORY | | |
16. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5455, MF= 3, MT= 57 | RECORD NUMBER | 565 |
| SECTION 3/ 57 NOT IN DIRECTORY | | |
17. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5455, MF= 3, MT= 58 | RECORD NUMBER | 589 |
| SECTION 3/ 58 NOT IN DIRECTORY | | |
18. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5455, MF= 3, MT= 59 | RECORD NUMBER | 613 |
| SECTION 3/ 59 NOT IN DIRECTORY | | |
19. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5455, MF= 3, MT= 60 | RECORD NUMBER | 636 |
| SECTION 3/ 60 NOT IN DIRECTORY | | |
20. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5455, MF= 3, MT= 61 | RECORD NUMBER | 659 |
| SECTION 3/ 61 NOT IN DIRECTORY | | |
21. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5455, MF= 3, MT= 62 | RECORD NUMBER | 682 |
| SECTION 3/ 62 NOT IN DIRECTORY | | |
22. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT= 63 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5455, MF= 3, MT= 63 | RECORD NUMBER | 704 |
| SECTION 3/ 63 NOT IN DIRECTORY | | |
23. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT= 64 (0): Directory (b)

- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=5455, MF= 3, MT= 64 | | |
| | SECTION 3/ 64 NOT IN DIRECTORY | RECORD NUMBER | 726 |
24. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT= 65 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=5455, MF= 3, MT= 65 | | |
| | SECTION 3/ 65 NOT IN DIRECTORY | RECORD NUMBER | 748 |
25. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT= 66 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=5455, MF= 3, MT= 66 | | |
| | SECTION 3/ 66 NOT IN DIRECTORY | RECORD NUMBER | 769 |
26. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT= 67 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=5455, MF= 3, MT= 67 | | |
| | SECTION 3/ 67 NOT IN DIRECTORY | RECORD NUMBER | 790 |
27. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT= 68 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=5455, MF= 3, MT= 68 | | |
| | SECTION 3/ 68 NOT IN DIRECTORY | RECORD NUMBER | 810 |
28. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT= 69 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=5455, MF= 3, MT= 69 | | |
| | SECTION 3/ 69 NOT IN DIRECTORY | RECORD NUMBER | 830 |
29. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT= 91 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=5455, MF= 3, MT= 91 | | |
| | SECTION 3/ 91 NOT IN DIRECTORY | RECORD NUMBER | 849 |
30. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT=102 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=5455, MF= 3, MT=102 | | |
| | SECTION 3/102 NOT IN DIRECTORY | RECORD NUMBER | 868 |
31. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT=103 (0): Directory (b)

- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=5455, MF= 3, MT=103 | | |
| | SECTION 3/103 NOT IN DIRECTORY | RECORD NUMBER | 900 |
32. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT=104 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=5455, MF= 3, MT=104 | | |
| | SECTION 3/104 NOT IN DIRECTORY | RECORD NUMBER | 917 |
33. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT=105 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=5455, MF= 3, MT=105 | | |
| | SECTION 3/105 NOT IN DIRECTORY | RECORD NUMBER | 929 |
34. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 3, MT=107 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=5455, MF= 3, MT=107 | | |
| | SECTION 3/107 NOT IN DIRECTORY | RECORD NUMBER | 939 |
35. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 4, MT= 2 (0): Directory (b)
- | | | | |
|--|--|---------------|-----|
| | ERROR(S) FOUND IN MAT=5455, MF= 4, MT= 2 | | |
| | SECTION 4/ 2 NOT IN DIRECTORY | RECORD NUMBER | 957 |
36. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 4, MT= 16 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=5455, MF= 4, MT= 16 | | |
| | SECTION 4/ 16 NOT IN DIRECTORY | RECORD NUMBER | 1309 |
37. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 4, MT= 17 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=5455, MF= 4, MT= 17 | | |
| | SECTION 4/ 17 NOT IN DIRECTORY | RECORD NUMBER | 1348 |
38. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 4, MT= 22 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=5455, MF= 4, MT= 22 | | |
| | SECTION 4/ 22 NOT IN DIRECTORY | RECORD NUMBER | 1365 |
39. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 4, MT= 28 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5455, MF= 4, MT= 28 | RECORD NUMBER | 1392 |
| SECTION 4/ 28 NOT IN DIRECTORY | | |
40. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 4, MT= 51 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5455, MF= 4, MT= 51 | RECORD NUMBER | 1419 |
| SECTION 4/ 51 NOT IN DIRECTORY | | |
41. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 4, MT= 52 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5455, MF= 4, MT= 52 | RECORD NUMBER | 1648 |
| SECTION 4/ 52 NOT IN DIRECTORY | | |
42. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 4, MT= 53 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5455, MF= 4, MT= 53 | RECORD NUMBER | 1865 |
| SECTION 4/ 53 NOT IN DIRECTORY | | |
43. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 4, MT= 54 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5455, MF= 4, MT= 54 | RECORD NUMBER | 2012 |
| SECTION 4/ 54 NOT IN DIRECTORY | | |
44. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 4, MT= 55 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5455, MF= 4, MT= 55 | RECORD NUMBER | 2219 |
| SECTION 4/ 55 NOT IN DIRECTORY | | |
45. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 4, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5455, MF= 4, MT= 56 | RECORD NUMBER | 2304 |
| SECTION 4/ 56 NOT IN DIRECTORY | | |
46. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 4, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5455, MF= 4, MT= 57 | RECORD NUMBER | 2387 |
| SECTION 4/ 57 NOT IN DIRECTORY | | |
47. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 4, MT= 58 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5455, MF= 4, MT= 58 | RECORD NUMBER | 2468 |
| SECTION 4/ 58 NOT IN DIRECTORY | | |
48. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 4, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5455, MF= 4, MT= 59 | RECORD NUMBER | 2547 |
| SECTION 4/ 59 NOT IN DIRECTORY | | |
49. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 4, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5455, MF= 4, MT= 60 | RECORD NUMBER | 2624 |
| SECTION 4/ 60 NOT IN DIRECTORY | | |
50. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 4, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5455, MF= 4, MT= 61 | RECORD NUMBER | 2699 |
| SECTION 4/ 61 NOT IN DIRECTORY | | |
51. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 4, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5455, MF= 4, MT= 62 | RECORD NUMBER | 2772 |
| SECTION 4/ 62 NOT IN DIRECTORY | | |
52. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 4, MT= 63 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5455, MF= 4, MT= 63 | RECORD NUMBER | 2843 |
| SECTION 4/ 63 NOT IN DIRECTORY | | |
53. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 4, MT= 64 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5455, MF= 4, MT= 64 | RECORD NUMBER | 2912 |
| SECTION 4/ 64 NOT IN DIRECTORY | | |
54. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 4, MT= 65 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5455, MF= 4, MT= 65 | RECORD NUMBER | 2979 |
| SECTION 4/ 65 NOT IN DIRECTORY | | |
55. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 4, MT= 66 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5455, MF= 4, MT= 66 | RECORD NUMBER | 3044 |
| SECTION 4/ 66 NOT IN DIRECTORY | | |
56. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 4, MT= 67 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5455, MF= 4, MT= 67 | RECORD NUMBER | 3107 |
| SECTION 4/ 67 NOT IN DIRECTORY | | |
57. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 4, MT= 68 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5455, MF= 4, MT= 68 | RECORD NUMBER | 3166 |
| SECTION 4/ 68 NOT IN DIRECTORY | | |
58. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 4, MT= 69 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5455, MF= 4, MT= 69 | RECORD NUMBER | 3223 |
| SECTION 4/ 69 NOT IN DIRECTORY | | |
59. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 4, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5455, MF= 4, MT= 91 | RECORD NUMBER | 3276 |
| SECTION 4/ 91 NOT IN DIRECTORY | | |
60. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 5, MT= 16 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5455, MF= 5, MT= 16 | RECORD NUMBER | 3330 |
| SECTION 5/ 16 NOT IN DIRECTORY | | |
61. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 5, MT= 17 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5455, MF= 5, MT= 17 | RECORD NUMBER | 3500 |
| SECTION 5/ 17 NOT IN DIRECTORY | | |
62. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 5, MT= 22 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5455, MF= 5, MT= 22 | RECORD NUMBER | 3560 |
| SECTION 5/ 22 NOT IN DIRECTORY | | |
63. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 5, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=5455, MF= 5, MT= 28
SECTION 5/ 28 NOT IN DIRECTORY RECORD NUMBER 3663

64. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF= 5, MT= 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=5455, MF= 5, MT= 91
SECTION 5/ 91 NOT IN DIRECTORY RECORD NUMBER 3766

65. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF=33, MT= 2 (0): Directory (b)

ERROR(S) FOUND IN MAT=5455, MF=33, MT= 2
SECTION 33/ 2 NOT IN DIRECTORY RECORD NUMBER 3994

66. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF=33, MT= 4 (0): Directory (b)

ERROR(S) FOUND IN MAT=5455, MF=33, MT= 4
SECTION 33/ 4 NOT IN DIRECTORY RECORD NUMBER 4084

67. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF=33, MT= 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=5455, MF=33, MT= 16
SECTION 33/ 16 NOT IN DIRECTORY RECORD NUMBER 4127

68. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5455, MF=33, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT=5455, MF=33, MT=102
SECTION 33/102 NOT IN DIRECTORY RECORD NUMBER 4139

• **psyche** Warnings:

1. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 134. L = 0 / STRENGTH FUNCTION IS 1.58456E-07 / STRENGTH FUNCTION 1.58456E-07 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

FILE 2
SECTION 151
ISOTOPE MASS = 134. L = 0
STRENGTH FUNCTION IS 1.58456E-07
STRENGTH FUNCTION 1.58456E-07
... [1 more lines]

2. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 134. L = 1 / STRENGTH FUNCTION IS 5.09829E-05 / STRENGTH FUNCTION 5.09829E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

```

FILE 2
SECTION 151
ISOTOPE MASS = 134. L = 1
STRENGTH FUNCTION IS 5.09829E-05
STRENGTH FUNCTION 5.09829E-05
... [1 more lines]

```

• fudge-4.0 Warnings:

1. Missing a channel with a particular angular momenta combination
resonances / resolved / MultiLevelBreitWigner (Error # 0): missingResonanceChannel

```

WARNING: Missing a channel with angular momenta combination L = 0, J = 1.5 and S = 1.5 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 0.5 and S = 1.5 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 1.5 and S = 1.5 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 2.5 and S = 1.5 for "capture"

```

2. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 0 (n + Xe134): / Form 'eval': / Component 0 (Error # 0): Condition num.

```

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

```

3. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 0 (n + Xe134): / Form 'eval': / Component 1 (Error # 0): Condition num.

```

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

```

4. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 1 ((z,n)): / Form 'eval': (Error # 0): Condition num.

```

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

```

5. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 2 (n[multiplicity:'2'] + Xe133): / Form 'eval': (Error # 0): Condition num.

```

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

```

6. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 3 (Xe135 + gamma): / Form 'eval': / Component 0 (Error # 0): Condition num.

```

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

```

7. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 3 (Xe135 + gamma): / Form 'eval': / Component 1 (Error # 0): Condition num.

```

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

```

• fudge-4.0 Errors:

1. Calculated and tabulated Q values disagree.
reaction label 21: n[multiplicity:'2'] + Xe133 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -3932231.416732788 eV vs -8.5369e6 eV!

2. Calculated and tabulated Q values disagree.
reaction label 22: n[multiplicity:'3'] + Xe132 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -10366666.9597168 eV vs -1.4975e7 eV!

3. Calculated and tabulated Q values disagree.
reaction label 23: n + H1 + I133 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -4906884.684799194 eV vs -9.5253e6 eV!

4. Calculated and tabulated Q values disagree.
reaction label 24: Xe135 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 10983837.23146057 eV vs 6.4523e6 eV!

5. Calculated and tabulated Q values disagree.
reaction label 25: n + He4 + Te130 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 1421982.011032104 eV vs -3.2017e6 eV!

6. Calculated and tabulated Q values disagree.
reaction label 26: H1 + I134_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 1350323.86932373 eV vs -3.3525e6 eV!

7. Calculated and tabulated Q values disagree.
reaction label 27: H2 + I133_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -2682318.583862305 eV vs -7.3008e6 eV!

8. Calculated and tabulated Q values disagree.
reaction label 28: H3 + I132_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -4683113.602462769 eV vs -9.2881e6 eV!

9. Calculated and tabulated Q values disagree.
reaction label 29: He4 + Te131_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 7351361.481735229 eV vs 2.728e6 eV!

- njoy2012 Warnings:

1. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
grouppr...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 16
only mf4/mf5 provided

2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 17
only mf4/mf5 provided

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 22
only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 28
only mf4/mf5 provided

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 91
only mf4/mf5 provided